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APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/893,703	06/29/2001	Reizo Maeda	010829	4945
38834 7	7590 08/27/2004		EXAM	INER
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			ALEJANDRO, RAYMOND	
1250 CONNEC	CTICUT AVENUE, NW			<u> </u>
SUITE 700		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			1745	

DATE MAILED: 08/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/893,703	MAEDA ET AL.
- Motor Gummary	Examiner	Art Unit
The MAILING DATE of this communication	Raymond Alejandro	1745
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTHS	be timely filed 0) days will be considered timely. 6 from the mailing date of this communication.
Status		
1) Responsive to communication(s) filed on 24 Ju	une 2004	
1 0 1 0 7 -	action is non-final.	
3) Since this application is in condition for allowar	nce except for formal matters	prosecution as to the movite in
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213
Disposition of Claims		, , , , , , , , , , , , , , , , , , , ,
4)⊠ Claim(s) <u>1-5 and 9</u> is/are pending in the applica	ation	
4a) Of the above claim(s) is/are withdraw		
5) Claim(s) is/are allowed.	m nom consideration.	
6)⊠ Claim(s) <u>1-5 and 9</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9) The specification is objected to by the Examiner	r	
10)⊠ The drawing(s) filed on 29 June 2001 is/are: a)	Maccontad or h\□ =b:==t	
Applicant may not request that any objection to the o	Z accepted of b) objected	to by the Examiner.
Replacement drawing sheet(s) including the correction	on in required if the description	See 37 CFR 1.85(a).
11) The oath or declaration is objected to by the Exa	on is required if the drawing(s) is aminer. Note the attached Off	s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	armier. Note the attached On	ice Action or form PTO-152.
· · · · · · · · · · · · · · · · · · ·		
12)⊠ Acknowledgment is made of a claim for foreign ¡ a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119	∂(a)-(d) or (f).
,,,,,		
1. Certified copies of the priority documents	have been received.	
2. Certified copies of the priority documents	nave been received in Applic	cation No
3. Copies of the certified copies of the priori	ty documents have been rece	eived in this National Stage
application from the International Bureau * See the attached detailed Office action for a list o	(PCT Rule 17.2(a)).	
a list o	i the certified copies not rece	ived.
)ttachment(e)		
Attachment(s)) Notice of References Cited (PTO 202)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa	ary (PTO-413)
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date al Patent Application (PTO-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Response to Amendment

This office communication is submitted responsive to the amendment filed 06/24/04. The applicants have overcome the objection (suggestion). Refer to the abovementioned amendment for specific details on applicant's rebuttal arguments. However, the present claims are finally rejected over the same art as seen below and for the reasons of record:

Election/Restrictions

1. Applicant's cancellation of claims 6-8 in the Paper No. 06/24/04 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-5 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Yuasa et al 5250369.

The instant application is directed to a hydrogen absorbing alloy electrode wherein the disclosed inventive concept comprises the specific polymeric material coated thereon. Other limitations include the specific polymeric materials and the specific weight percent.

With respect to claim 1:

Yuasa et al disclose that a hydrogen absorbing ally negative electrode for use in storage type battery is prepared through a process in which an alkali-resisting organic high molecule

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such as polyethylene, fluorocarbon polymer or the like, is added as a binding agent to a pulverized hydrogen absorbing alloy, and the resulting mixture is pressed onto or filled into an electrically conductive collector such as punching metal or a foam metal (Col 1, lines 37-45/Col 3, lines 50-67). Other alkali-resisting resins (binding agent) such as carboxymethylcelluse and methylcellulose or poly(vinyl alcohol) can also be employed (Col 14, lines 6-10). It is noted that the binding agent assists to hold fast or adhere the electrode material to conductive collector.

Examiner's note: it is noted that the transitional phrase "composed of" is construed as an openended phrase and therefore does not exclude other components.

Example 1 shows the use of an aqueous solution of poly(vinyl alcohol) (the binding agent) mixed into the hydrogen absorbing alloy powder to form paste; and a foamed nickel porous matrix (the current collector) which is filled with the prepared paste and pressed (EXAMPLE 1/COL 4, lines 1-10). Example 7 further shows the hydrogen absorbing alloy negative electrode is coated with polyethylene (the coating polymeric material) (EXAMPLE 7/COL 4, lines 65-68). Thus, in this case, the hydrogen absorbing alloy electrode consist of the hydrogen absorbing powder and a binding agent composed of a polymeric material (polyvinyl alcohol) adhered to the current collector, and being coated with polyethylene. Hence, the polymeric material in the coating layer is different from the polymeric material in the binding agent.

With respect to claims 2-3:

It is disclosed that polyethylene used may be replaced by one of thermoplastic resins such as ABS resin (COL 14, lines 26-30). It is noted that ABS resin stands for thermoplastic resins

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made of acrylonitrile-<u>butadiene-styrene copolymer</u>. It is also noted that <u>styrene is an aromatic</u> <u>olefin</u> and <u>butadiene is a conjugated diene</u>.

With respect to claims 4-5:

It is disclosed that the hydrogen absorbing ally negative electrode contains the resin by an amount of 1.5 wt % of the electrode (COL 5, lines 60-63).

With respect to claim 9:

It is disclosed that the hydrogen absorbing alloy electrode is for use in an alkaline storage battery (ABSTRACT/ COL 1, lines 11-14).

Thus, the claims are anticipated.

Response to Arguments

- 4. Applicant's arguments filed 06/24/04 have been fully considered but they are not persuasive.
- 5. The primary contention of applicants' arguments is grounded on the assertion that "the polyethylene in Yuasa et al does not appear to be applied as an "aqueous polymeric material"". However, this assertion is respectfully disagreed with because the prior art of record clearly discloses the following, in particular: **EXAMPLE 20** illustrates a hydrogen absorbing alloy negative electrode coated with FEP by dipping a negative electrode plate into a dispersion solution prepared by dispersing FEP powder into an aqueous solution (See EXAMPLE 20).

EXAMPLE 20

A hydrogen absorbing alloy negative electrode coated with FEP by an amount of 0.8 mg/cm² by dipping a negative electrode plate into a dispersion solution prepared by dispersing FEP powder into an aqueous solution of 1.5 wt% PVA, was prepared.

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Therefore, the examiner does not understand why applicants have argued that the polymeric material "does not appear" to be applied as an "aqueous polymeric material". In addition, it is apparent from applicants' arguments (by employing the language "does not appear") that applicants are not confident and fully convinced about such argumentative statement. In order to provide further evidence demonstrating the electrode of Yuasa et al satisfies the claimed requirement of being coated, the examiner courteously directs applicants' attention to EXAMPLES 3-16 also illustrating that the hydrogen absorbing ally negative electrode is coated with either polyethylene, polytetrafluoroethylene, a hydrophobic resin, polyvinylidene fluoride, FEP, FEP mixed with other constituents. Hence, the prior art reference does provide the necessary coating feature as instantly claimed.

- 6. With respect to applicants' arguments that "Applicants further note that Yuasa et al does not appear to clearly state how the polyethylene is coated", the examiner firstly contends that that the instant claims are simply directed to a hydrogen absorbing alloy electrode product and thus, the product itself does not depend on the process of making it. Accordingly, the patentability of a product does not depend on its method of production. Secondly, it is further contended that the present claim language is also silent as to how the coating layer is applied or coated thereon, and if that would have been the case, there is no showing of objective evidence demonstrating that the claimed product is necessarily different from the prior art's product and that such different is unobvious as required for product-by-process claim limitations.
- 7. Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references.

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Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Alejandro whose telephone number is (571) 272-1282. The examiner can normally be reached on Monday-Thursday (8:00 am - 6:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Raymond Alejandro

Examiner

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